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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/615,209	07/07/2003	Koji Togashi	9475/0M563US0	8050
7278	7590	10/22/2004	EXAMINER	
DARBY & DARBY P.C. P. O. BOX 5257 NEW YORK, NY 10150-5257			ZARROLI, MICHAEL C	
			ART UNIT	PAPER NUMBER
			2839	

DATE MAILED: 10/22/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

312 RESPONSE
Notice of Allowability

Application No.

10/615,209

Examiner

Michael C. Zarroli

Applicant(s)

TOGASHI, KOJI

Art Unit

2839

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the amendment filed 8/11/04.
2. ☒ The allowed claim(s) is/are 1-6.
3. ☐ The drawings filed on _____ are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____ |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____ |

MICHAEL C. ZARROLI
PRIMARY EXAMINER



EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Denise Poy on 8/11/04.

The application has been amended as follows: **Revise claims 5 and 6 as indicated on the attached revised copies of the claims.**

2. The amendment filed on 8/11/04 under 37 CFR 1.312 has been entered.

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael C. Zarroli whose telephone number is 571-272-2101. The examiner can normally be reached on 7:30 to 3:30 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, T.C. Patel can be reached on (571) 272-2800 ext 39. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Michael C. Zarroli
Primary Examiner
Art Unit 2839

MCZ
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protruding strips formed on an outer circumference of said caulked sleeve and
a joint portion between said almost semi-circular member and said protruding strips;
wherein

an outside contour of a cross section of said joint portion connects an outside contour of a cross section of said protruding strips to an outside contour of a cross section of said almost semi-circular member;

said outside contour of said cross section of said joint portion has a curvature radius R2 and said outside contour of the cross section of said protruding strips has a height H2 in a direction of said crimp height H1, said curvature radius R2 and said height H2 satisfy the following Equations (3) and (4), respectively:

(3) $R2 = P3 \times T1$ and

(4) $H2 = P4 \times R1$

where P3 is a numerical value set within the range from 1.8 to 2.2 and P4 is a numerical value set within the range from 1.5 to 2.0.

5. (Currently amended) A method for forming a connecting structure of a coaxial cable and a coaxial connector for electrically and mechanically connecting a coaxial cable and a coaxial connector, said method comprising:

allowing a braided conductor to be exposed from an end of said coaxial cable;

inserting connecting conductor portions formed continuously from an end of a shell of said coaxial connector into a space between said braided conductor and a metal tape conductor inside said braided conductor;

caulking a cylindrical sleeve having a crimp height H1, said step of caulking said sleeve comprising jointing two opposing almost semi-circular members, each almost semi-circular member having a radius R1, said radius R1 and said crimp height H1 satisfying the following Equations (1) and (2), respectively:

$$(1) \quad R1 = P1 \times (D + 2 \times T1)$$

(2) $H1 = P2 \times R1$

where D is an outside diameter of said coaxial cable, T1 is a plate thickness of said sleeve, P1 is a numerical value set within the range from 0.45 to 0.48, and P2 is a numerical value set within the range from 2.02 to 2.12;

said caulked sleeve further comprises protruding strips formed on an outer circumference of said caulked sleeve and a joint portion between said almost semi-circular member and said protruding strips;

an outside contour of a cross section of said joint portion connects an outside contour of a cross section of said protruding strips to an outside contour of a cross section of said almost semi-circular member; and

said outside contour of said cross section of said joint portion has a curvature radius R2 and said outside contour of the cross section of said protruding strips has a height H2 in a direction of said crimp height H1, said curvature radius R2 and said height H2 satisfy the following Equations (3) and (4), respectively:

$$(3) \quad R2 = P3 \times T1 \text{ and}$$

$$(4) \quad H2 = P4 \times R1$$

where P3 is a numerical value set within the range from 1.8 to 2.2 and P4 is a numerical value set within the range from 1.5 to 2.0.

6. (Currently amended) A method for forming a connecting structure of a coaxial cable and a coaxial connector for electrically and mechanically connecting a coaxial cable and a coaxial connector, said method comprising:

allowing a braided conductor to be exposed from an end of said coaxial cable;

inserting connecting conductor portions formed continuously from an end of a shell of said coaxial connector into a space between said braided conductor and a dielectric material inside said braided conductor;

caulking a cylindrical sleeve having a crimp height H1, said step of caulking said sleeve comprising jointing two opposing almost semi-circular members, each almost semi-circular member having a radius R1, said radius R1 and said crimp height H1 satisfying the following Equations (1) and (2), respectively:

$$(1) \quad R1 = P1 \times (D + 2 \times T1)$$

$$(2) \quad H1 = P2 \times R1$$

where D is an outside diameter of said coaxial cable, T1 is a plate thickness of said sleeve, P1 is a numerical value set within the range from 0.45 to 0.48, and P2 is a numerical value set within the range from 2.02 to 2.12;

said caulked sleeve further comprises protruding strips formed on an outer circumference of said caulked sleeve and a joint portion between said almost semi-circular member and said protruding strips;

an outside contour of a cross section of said joint portion connects an outside contour of a cross section of said protruding strips to an outside contour of a cross section of said almost semi-circular member; and

said outside contour of said cross section of said joint portion has a curvature radius R2 and said outside contour of the cross section of said protruding strips has a height H2 in a direction of said crimp height H1, said curvature radius R2 and said height H2 satisfy the following Equations (3) and (4), respectively:

$$(3) \quad R2 = P3 \times T1 \text{ and}$$

$$(4) \quad H2 = P4 \times R1$$

where P3 is a numerical value set within the range from 1.8 to 2.2 and P4 is a numerical value set within the range from 1.5 to 2.0.